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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,451	09/30/2003	Takeshi Inao	P/1071-1600	4123
2352	2352 7590 01/18/2006		EXAMINER	
OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS			RACHUBA, M	MAURINA T
	C, NY 100368403	,	ART UNIT	PAPER NUMBER
	,		3723	

DATE MAILED: 01/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/674,451	INAO, TAKESHI			
	Office Action Summary	Examiner	Art Unit			
		M Rachuba	3723			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated the vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 03 No	ovember 2005.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 15,16 and 18-20 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 15,16 and 18-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
·	The specification is objected to by the Examiner					
10)🖂	10) The drawing(s) filed on 30 September 2003 is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	t(s) e of References Cited (PTO-892)	4) 🔲 Interview Summary ((PTO-413)			
2) 🔲 Notic 3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:	te			

Application/Control Number: 10/674,451

Art Unit: 3723

DETAILED ACTION

Election/Restrictions

1. Applicant's amendment has overcome the election requirement.

Claim Rejections - 35 USC § 112

2. Applicant's amendment has overcome the previous rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 15and 20 are finally rejected under 35 U.S.C. 102(b) as being clearly anticipated by Fivian, 4,142,333, as set forth in the Office action mailed 01 August 2005.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Page 3

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 7. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fivian. '333, as set forth in the Office action mailed 01 August 2005
- 8. Claims 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fivian, '333 in view of Numoto et al, US006027398A, as set forth in the Office action mailed 01 August 2005. Further, regarding newly presented claim 20, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided the tool of 1333 with an abrasive grain cutting depth of 10 nm or less, dependent on the workpiece, the material of the workpiece, and the degree of material removal/surface polish desired, since it has been held that where the general conditions of a claim are disclosed in the prior ad, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Response to Arguments

9. Applicant's arguments filed 03 November 2005 have been fully considered but they are not persuasive. Applicant argues that '333 does not disclose any polishing function or a polishing side face, nor any polishing element with abrasive grains for cutting. The examiner disagrees. '333, figures 4 and 5, and column 4, lines 58 through column 5, lines 25, discloses both rough (cutting) grinding and fine (polishing) grinding of the side surfaces of the grooves, or tooth sides. Applicant has not disclosed or claimed any difference in abrasive grains (such as grain size or material) that would

Art Unit: 3723

prevent '333 from reading on this limitation. Applicant argues that neither '333 alone or in combination with '398 teaches a sensor for detecting the contact position by detecting an electrical characteristic of the rotary driving unit, the electrical characteristic comprising at least one of a magnetic field and a current of said rotary driving unit. The examiner disagrees. '333 teaches a feeler 11 that mechanically measures the wear of the grinding tool, and indirectly the contact position between the tool and workpiece, and controls the motion of the tool relative to the workpiece based on that position. '398 clearly teaches measuring the magnetic field of a rotary driving unit to indicate contact between the device being rotated and the device being contacted, using a Hall sensor. Applicant has not claimed any particular placement of his sensor, or that the sensor senses the magnetic field at a specific place on the unit. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 3723

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M Rachuba whose telephone number is 571-272-4493. The examiner can normally be reached on Monday-Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 571-272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M Rachuba
Primary Examiner
Art Unit 3723